Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period : Alpha

Thursday March 12

Dear Alpha biology students,

The following work needs to be completed by Monday March 16. If you use classtime wisely you should be able to complete all this work in class. Remember you have a quiz tomorrow.

1. Label parts of the reproductive systems (can use lizard/honors textbook Ch. 34)
2. Write definitions for reproduction vocabulary words.
3. Read and annotate article on how marijuana affects fertility.
4. Read and annotate IVF overview article (separate from packet)

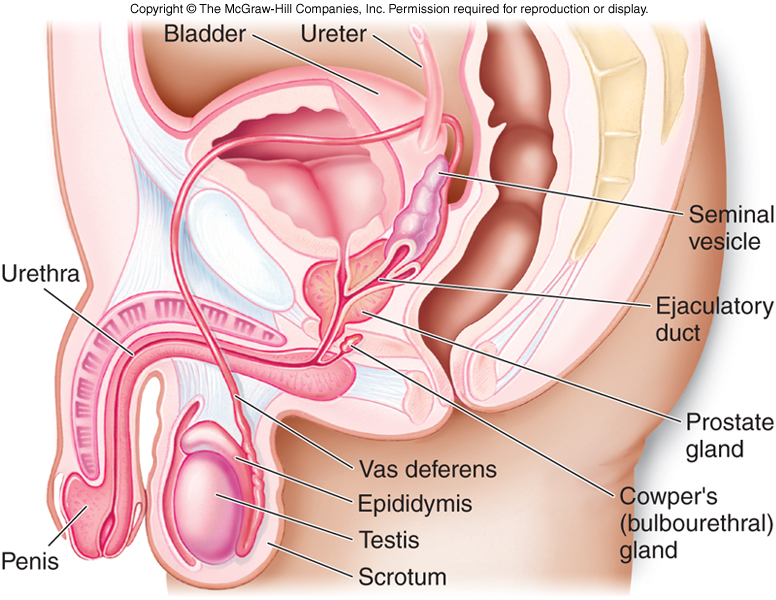
**Male Reproductive System**

Function:

Anatomy:

1. Label parts of the male reproductive system.
2. Where are sperm produced? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. On the drawing , trace the path sperm travel from where they are produced to where they exit the body
4. Write down the path sperm travel:

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Word Bank:

Bladder Epididymis Penis Scrotum Testis

Urethra Vas deferens

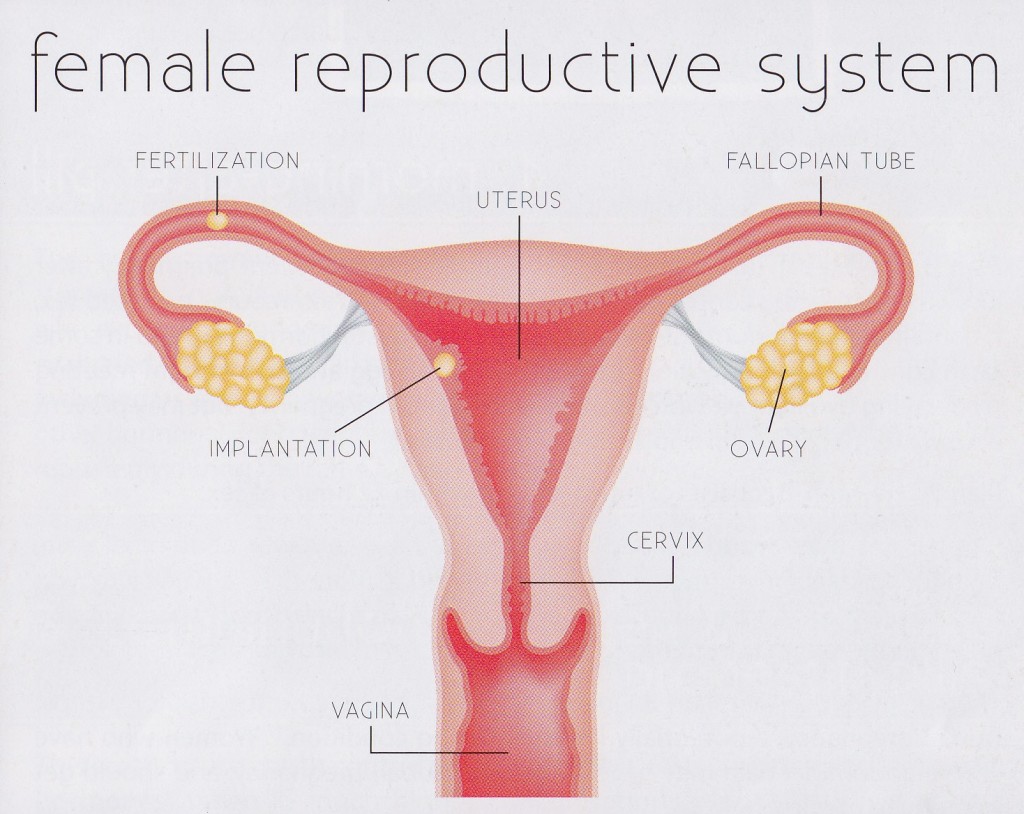
**Female Reproductive System**

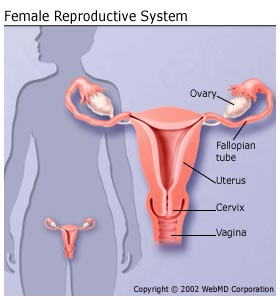
Function:

Anatomy:

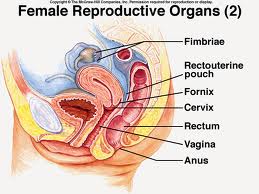
1. Label parts of the female reproductive system.
2. Where are eggs stored? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Where does fertilization occur? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Where do babies develop? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. On the drawing, trace the path sperm travel in order to fertilize an egg.
6. Write down the path sperm travel:

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Word Bank: Cervix Fallopian Tube Uterus Vagina Ovary



**Reproduction Vocabulary**

Semen

Testes (testicles)

Epididymis

Vas deferens

Urethra

Ovum/egg

Ovaries

Ovulation

Fallopian tube

Uterus

Fertilization

Infertility

# Marijuana may stem fertility in men so stop toking if you're trying for a baby

By [Judy Mottl](http://www.techtimes.com/reporters/judy-mottl), Tech Times | June 5, 1:39 PM



If research stipulating that pot kills brain cells isn't enough to stop the weed habit, then maybe possible infertility just may. At least for men trying to have a baby.

A research effort in sperm quality reveals smoking marijuana could change the shape and the quality of sperm and put a man's fertility at risk.

The study focused on lifestyle activities such as drinking, pot use and the impact on sperm size and shape.

"We weren't really interested in [the cannabis angle] at all," [said](http://www.foxnews.com/health/2014/06/05/marijuana-use-may-affect-size-and-shape-men-sperm/) lead researcher Dr. Alan Pacey, senior lecturer in andrology at the University of Sheffield in England.  "We were interested in trying to best define the risks of sperm quality.  We recruited [a couple thousand] guys, who gave us a sperm sample and allowed us to investigate aspects of their lives...It was just one of the things we asked if they did; it was no more detailed than that."

The study assessed 2,000 men from 14 fertility clinics in England and participants provided insight on medical history, lifestyle and habits.

When assessing the data and the sperm samples, the researchers discovered that the males with abnormal sperm were those who had smoked marijuana within the three months prior to providing the sperm sample.

"I do know there is some work in laboratory animals that suggests [marijuana] can affect the way the DNA in the sperm is packaged together, and that's significant," Pacey said.  "When sperm are made, the DNA they maintain has to be packaged in the head very tightly, and when that process doesn't work properly, you get an abnormal sperm.  So the cannabis is maybe interrupting that DNA folding."

The research did not find any link between abnormal sperm and other lifestyle habits such as smoking or drinking. That may be, say researchers, because the men in the study were striving to have children and may have stopped such habits.

"Cannabis smoking was more common in those men who had sperm morphology less than 4%," Pacey [said](http://thechart.blogs.cnn.com/2014/06/05/marijuana-may-affect-fertility-in-young-men/). "Cannabis affects one of the processes involved in determining size and shape. And we also know that the way cannabis is metabolized is different in fertile and infertile men."

According to the American Society for Reproductive Medicine a third of all infertility issues are tied to the male partner.

Tech Times recently reported on another study regarding health and the use of marijuana. That study revealed that [weed use may lead to an increased risk of a person suffering from sleep problems](http://www.techtimes.com/articles/8062/20140605/Marijuana%20use%20may%20lead%20to%20an%20increased%20risk%20of%20a%20person%20suffering%20from%20sleep%20problems,%20say%20U.S.%20researchers%20studying%20cannabis'%20impact%20on%20public%20health.).

“The most surprising finding," said lead author Jilesh Chheda, "was that there was a strong relationship with age of first use, no matter how often people were currently using marijuana. People who started using early were more likely to have sleep problems as an adult."

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period : Epsilon

Thursday March 12

Dear Epsilon biology students,

The following work needs to be completed by Monday March 16. If you use classtime wisely you should be able to complete all this work in class. Remember you have a quiz tomorrow.

1. Label parts of the reproductive systems (can use lizard/honors textbook Ch. 34)
2. Define the vocabulary words
3. Read and annotate article on marijuana and infertility.
4. Watch and take notes on the following animations (search the titles given below on YouTube)

* [Animation of how IVF works](https://www.youtube.com/watch?v=GeigYib39Rs) - 3 min
* [In Vitro Fertilization (Nucleus Media Center)](https://www.youtube.com/watch?v=uXsCngh89fI) – 6 min

1. Read and annotate IVF overview article (separate from packet)

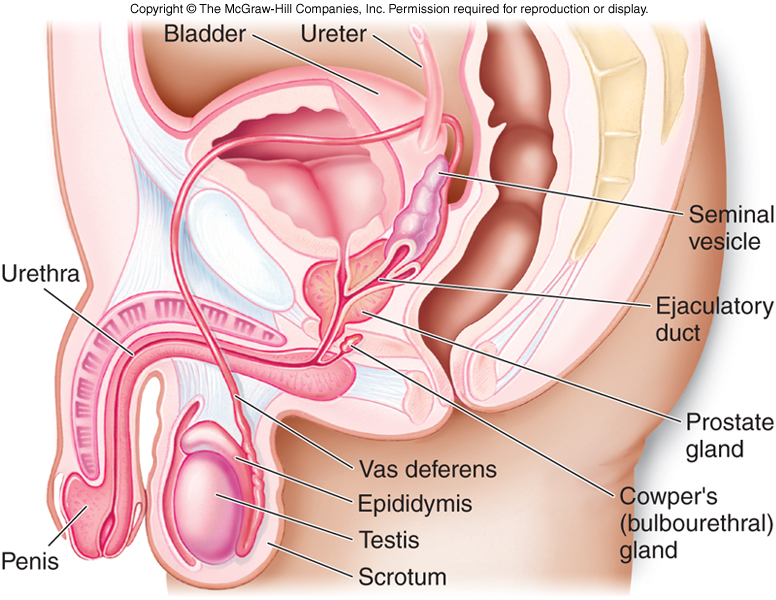
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Word Bank:

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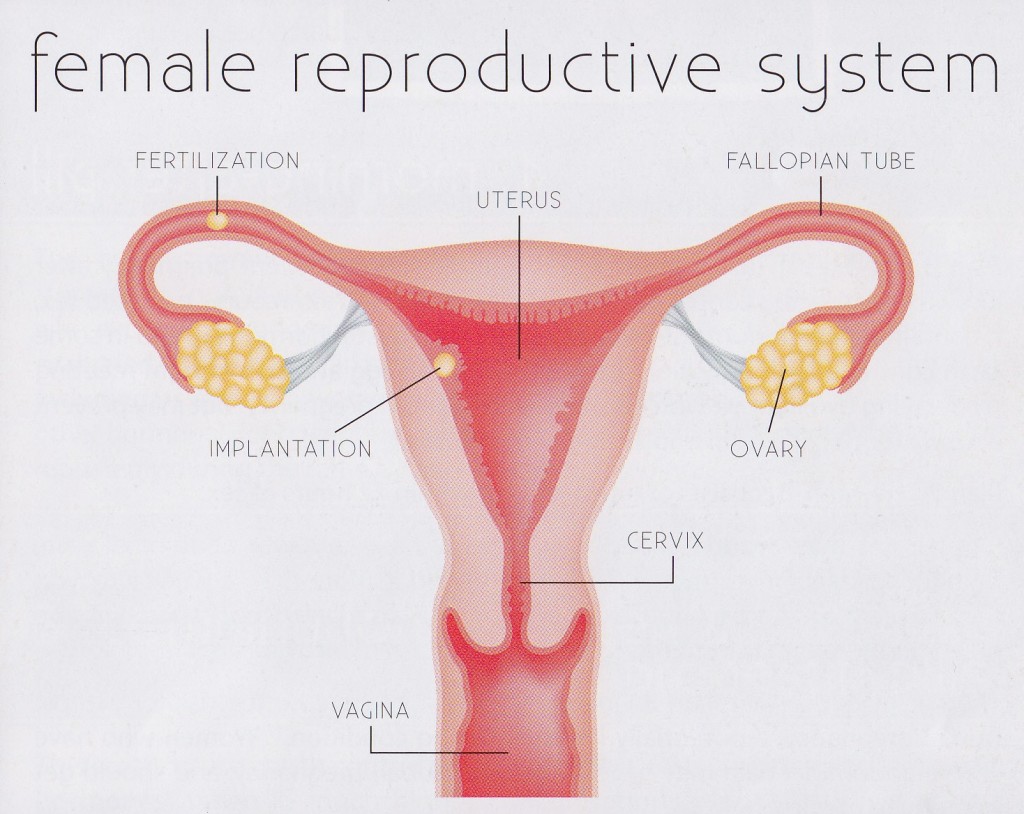
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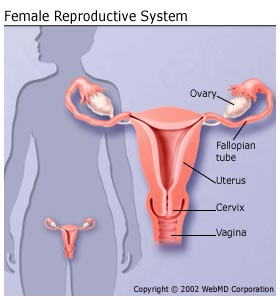
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Anatomy:

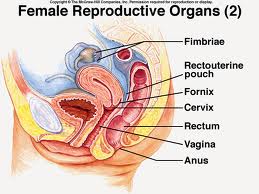
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Semen

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Urethra

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Ovaries

Ovulation

Fallopian tube

Uterus

Fertilization

Infertility

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Notes on IVF Animations